

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) An automatic injection device comprising piston holders holding cylinder pistons and plural systems of heads having a drive mechanism for moving the piston holders forward and backward, whereby the device can hold a plurality of syringes and operates injection or suction in each syringe independently,

said device comprising a backward-moving prohibition mechanism for prohibiting the backward-moving of the piston holder of a second head when the piston holder of a first head is in a forward-moving state and the piston holder of the second head is in a stopped state, wherein said backward-moving prohibition mechanism is a disc brake or a worm gear.

2. (Original) The automatic injection device according to claim 1, wherein said drive mechanism has a motor and mechanism for converting the rotation of the motor into a linear movement, and said backward-moving prohibition mechanism prohibits the axis of rotation to rotate in the backward direction.

3. (Original) The automatic injection device according to claim 1, wherein said drive mechanism has a motor and mechanism for converting the rotation of the motor into a linear movement, and said backward-moving prohibition mechanism prohibits the linear movement in the backward direction.

4. (Cancel)

5. (Original) The automatic injection device according to claim 1, wherein said device is a double head type with the number of systems of heads being two and holds two syringes.

6. (Original) The automatic injection device according to claim 1, wherein said device holds a syringe for injecting a contrast medium and another syringe for injecting a physiological saline solution.

7. (Original) The automatic injection device according to claim 5, wherein said device holds a syringe for injecting a contrast medium at the first head and a syringe for injecting a physiological saline solution at the second head.

8. (Original) The automatic injection device according to claim 5, wherein the tips of the two syringes are connected to a three way-branched tube.

9. (Original) The automatic injection device according to claim 7, wherein the tips of the two syringes are connected to a three way-branched tube.

10. (New) An automatic injection device comprising piston holders holding cylinder pistons and plural systems of heads having a drive mechanism for moving the piston holders forward and backward, whereby the device can hold a plurality of syringes and operates injection or suction in each syringe independently,

said device comprising a ratchet and a ratchet pole, wherein when the piston holder of a first head is in a forward-moving state then said ratchet pole is engaged with said ratchet whereby the piston holder of a second head is in a stopped state and backward-moving of the second head is prohibited, and wherein the engagement is releasable in order to allow the second head to move in a backward-moving state.

11. (New) The automatic injection device according to claim 10, wherein said drive mechanism has a motor and mechanism for converting the rotation of the motor into a linear movement, and said backward-moving prohibition mechanism prohibits the axis of rotation

to rotate in the backward direction.

12. (New) The automatic injection device according to claim 10, wherein said drive mechanism has a motor and mechanism for converting the rotation of the motor into a linear movement, and said backward-moving prohibition mechanism prohibits the linear movement in the backward direction.

13. (New) The automatic injection device according to claim 10, wherein said device is a double head type with the number of systems of heads being two and holds two syringes.

14. (New) The automatic injection device according to claim 10, wherein said device holds a syringe for injecting a contrast medium and another syringe for injecting a physiological saline solution.

15. (New) The automatic injection device according to claim 13, wherein said device holds a syringe for injecting a contrast medium at the first head and a syringe for injecting a physiological saline solution at the second head.

16. (New) The automatic injection device according to claim 13, wherein the tips of the two syringes are connected to a three way-branched tube.

17. (New) The automatic injection device according to claim 15, wherein the tips of the two syringes are connected to a three way-branched tube.

18. (New) An automatic injection device comprising piston holders holding cylinder pistons and plural systems of heads having a drive mechanism for moving the piston holders forward and backward, whereby the device can hold a plurality of syringes and operates injection or suction in each syringe independently,

said device comprising an electromagnetic brake, wherein said electromagnetic brake

is turned on when the piston holder of a first head is in a forward-moving state and the piston holder of a second head is in a stopped state, whereby backward-moving of the second head is prohibited, and wherein said electromagnetic brake is turned off when the second head is moving state.

19. (New) The automatic injection device according to claim 18, wherein said drive mechanism has a motor and mechanism for converting the rotation of the motor into a linear movement, and said backward-moving prohibition mechanism prohibits the axis of rotation to rotate in the backward direction.

20. (New) The automatic injection device according to claim 18, wherein said drive mechanism has a motor and mechanism for converting the rotation of the motor into a linear movement, and said backward-moving prohibition mechanism prohibits the linear movement in the backward direction.

21. (New) The automatic injection device according to claim 18, wherein said device is a double head type with the number of systems of heads being two and holds two syringes.

22. (New) The automatic injection device according to claim 18, wherein said device holds a syringe for injecting a contrast medium and another syringe for injecting a physiological saline solution.

23. (New) The automatic injection device according to claim 21, wherein said device holds a syringe for injecting a contrast medium at the first head and a syringe for injecting a physiological saline solution at the second head.

24. (New) The automatic injection device according to claim 21, wherein the tips of the two syringes are connected to a three way-branched tube.

Application Serial No.: 09/963,427
Reply to Office Action dated January 21, 2004

25. (New) The automatic injection device according to claim 23, wherein the tips of the two syringes are connected to a three way-branched tube.